

~~SECRET~~~~CONFIDENTIAL~~The Files - Project

26 August 1954 50X1

 50X1

Tape Requirements

1. The amount of tape which will pass through the scanning head of the keyer for one (1) minute of operation at 600 words per minute has been based on measurements of a section of sample tape.

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2. The amount required for each contact will be determined by two primary factors: (a) maximum message length and (b) whether the message is in literal or numerical text. The length required per contact as further indicated will be based on a message on 100 groups, printed in numerical text.

3. Measurements of the sample tape follow:

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- | | |
|----------------------------------|--------------|
| a. Longest group | 4 1/8 inches |
| b. Shortest group | 3 13/16 " |
| c. Longest character (Number 0) | 7/8 " |
| d. Shortest character (Number 5) | 15/32 " |
| e. Spacing between characters | 7/32 " |
| f. Spacing between groups | 7/16 " |

This determines that the longest measured group and space is 4 9/16 inches. The shortest measured group and space is 4 5/16 inches. For ease of computation, an average group/space length of 4 1/2 inches will be used.

4. The amount of tape passing through the keying head when operating at 600 WPM are as follow:

- | | |
|---|--------------------|
| a. Tape speed | 45 inches per sec. |
| b. Length of tape containing 600 groups | 225 feet |
| c. Length of tape for a contact of 100 groups | 37 1/2 feet |
| d. Transmission time | 10 seconds |

40' tape makes a
roll approx 1 1/2" dia.

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FRANK C. SMITH

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